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IS 12240-5 (1988): Methods of test for polyvinyl chloride boots, Part 5: Determination of lead content [CHD 19: Footwear]

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IS : 12240 (Part 5) - 1988

Indian Standard

(Reaffirmed 2002)

METHODS OF TEST FOR POLYVINYL CHLORIDE BOOTS

PART 5 DETERMINATION OF LEAD CONTENT

1. Scope — Prescribes the test procedure for determination of lead content of components of polyvinyl chloride boots.

2. Apparatus

2.1 *Nessler Cylinder* — 50 ml capacity (*see* IS : 4161-1967 Specification for Nessler cylinders).

2.2 *Reagents*

2.2.1 *p-Nitrophenol indicator solution* — Dissolve 0·29 g of *p*-nitrophenol in hot water and dilute to 100 ml.

2.2.2 *Dilute ammonium hydroxide* — 1 : 9.

2.2.3 *Dilute hydrochloric acid* — 1 : 9.

2.2.4 *Hydrogen sulphide solution* — Saturated and freshly prepared.

2.2.5 *Standard lead solution* — Dissolve 1·60 g of lead nitrate in water and make up the solution to 1 000 ml with water. Pipette out 10 ml of the solution and dilute again to 1 000 ml with water. One millilitre of this solution contains 0·01 mg of lead (as Pb).

3. Procedure — Weigh accurately 5 g of the material and thoroughly shake it with 25 ml of water for 3 minutes and filter through Whatman filter paper No. 41 or its equivalent. Take the filtrate in a Nessler cylinder and add one drop of *p*-nitrophenol indicator solution. Add dilute ammonium hydroxide dropwise until the solution turns yellow. Add dilute hydrochloric acid dropwise until the solution becomes colourless and then add 0·5 ml of the acid in excess. Add 5 ml of hydrogen sulphide solution, dilute to the mark and mix well. Carry out a control test in a similar manner in another Nessler cylinder using 1 ml of standard lead solution.

3.1 The limit prescribed in the relevant standard shall be taken as not having been exceeded, if the intensity of colour produced with the material is not greater than that produced in the control test.

EXPLANATORY NOTE

This standard has been published in various parts as follows:

IS : 12240 Methods of test for polyvinyl chloride boots:

- Part 1 Measurement of thickness;
- Part 2 Determination of durometer hardness, Shore A;
- Part 3 Determination of relative density;
- Part 4 Determination of volatility;
- Part 5 Determination of lead content;
- Part 6 Determination of tensile strength and elongation at break;
- Part 7 Flexing test resistance to cut growth for soling material; and
- Part 8 Resistance to flexing for polyvinyl chloride upper material.

Footwear Sectional Committee CDC 40; Measurement, Sampling and Testing Subcommittee CDC 40:2 [Ref : Doc : CDC 40 (9189)]

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